Paper Dated: October 5, 2008

In Reply to USPTO Correspondence mail date 07/07/2008

Docket Number: 2003-04

AMENDMENTS TO THE CLAIMS

Claim 17. (currently amended). A gas turbine engine for generating electricity, comprising: an engine body; a #2 rotor spool within said engine body, having an alternator rotor with retained permanent magnets, a bladed compressor rotor having an air inlet and exit and a bladed turbine rotor having a gas inlet and exit; an electrical stator within said engine body, having electrical wire, laminats of magnetically attracted material, and said stator is coaxially about and in close proximity of the said alternator rotor \where relative rotation to the said stator inner diameter causes flux change and subsequent electricity generation within the said wires; a combustion system within the said engine body, receives compressor discharge air from the said #2 rotor spool, bladed compressor rotor exit for combusting supplied fuel and delivering of combusted gas energy to the [said power] #2 rotor spool bladed turbine rotor; a #1 rotor spool within said engine body, having a bladed compressor rotor with an air inlet and exit, a compressor rotor shaft and a bladed turbine rotor with a gas inlet and exit; an air intake in said engine body with communication to said #1 rotor spool compressor inlet; a #1 rotor spool turbine gas discharge duct within said engine body having fluid communication with said #1 rotor spool turbine rotor exit; a ducting means to deliver the said #1 rotor spool compressor rotor exit pressurized air flow to the inlet of the said #2 rotor spool compressor rotor inlet; a ducting means to deliver said #2 spool turbine rotor exiting gas energy to the said #1 rotor spool turbine rotor inlet.

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Claim 18. A gas turbine engine for generating electricity, as claimed in claim
17 wherein the said ducting means to deliver the said #1 rotor spool compressor rotor exit
pressurize air flow to the inlet of the said #2 rotor spool compressor rotor inlet incorporates
a variable area fluid flow control device.

Claim 19. (currently amended). A gas turbine engine for generating electricity, comprising: an engine body; a #2 rotor spool within said engine body, having an alternator rotor with retained permanent magnets, a bladed compressor rotor having an air inlet and exit and a bladed turbine rotor having a gas inlet and exit; an electrical stator within said engine body, having electrical wire, laminats of magnetically attracted material, and said stator is coaxially about and in close proximity of the said alternator rotor where relative rotation to the said stator inner diameter causes flux change and subsequent electricity generation within the said wires; a combustion system within the said engine body, receives compressor discharge air from the said [power] #2 rotor spool, bladed compressor rotor exit for combusting supplied fuel and delivering of combusted gas energy to the said #2 rotor spool turbine rotor; a #1 rotor spool within said engine body, having a bladed compressor rotor with an air inlet and exit, a compressor rotor shaft and a bladed turbine rotor with a gas inlet and exit; an air intake in said engine body with communication to said #1 rotor spool compressor inlet; a turbine gas discharge duct within said engine body having fluid communication with said #1 rotor spool, turbine rotor exit; a ducting means to deliver the said #1 rotor spool compressor rotor exit pressurized air flow to the inlet of the said #2 rotor

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spool compressor rotor inlet; a ducting means to deliver said #2 spool turbine rotor exiting gas energy to the said #1 rotor spool turbine rotor inlet; a bearing - seal housing assembly having a rotor bearing and rotor shaft labyrinth seal, within said engine body; furthermore the said bearing-seal housing assembly is positioned coaxially about the said #2 rotor spool between the alternator rotor and [power] #2 rotor spool compressor inlet; said bearing - seal housing assembly and said #2 rotor spool together as a module is insertable to the said engine body.

Claim 20. (canceled).

Claim 21. A gas turbine engine for generating electricity, as claimed in claim 19, wherein a oil squeeze film damper is incorporated between the said bearing-seal housing assembly outer diameter and the adjacent inner diameter of the said engine body.

Claim 22. (canceled).

Claim 23. A gas turbine engine for generating electricity as claimed in claim 19, wherein oil squeeze film dampers are incorporated in both the said bearing – seal housing assembly outer diameter and the said retained rotor bearing outer diameter within the said bearing-seal housing assembly.

Claim 24. (currently amended). A gas turbine engine for generating electricity as claimed in claim [19] 17 wherein the said ducting means to deliver said [turbo charger] #1 rotor spool compressor rotor exit, pressurized airflow to the said [power] #2 rotor spool compressor rotor inlet, a vaneless scroll flow area is incorporated to induce an air flow preswirl to the said #2 rotor spool compressor inlet.

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Claim 25. (currently amended). A gas turbine engine for generating electricity as claimed in claim [19] 17 wherein the combustion system heat source is from external means comprising: a heat exchanger having one of two sides of the heat exchanger with air fluid flow communication between the receiving said #2 spool compressor flow exit air and delivery of heat energy air flow supply to the said #2 spool turbine rotor gas inlet.

Claim 26. (currently amended). A gas turbine engine for generating electricity, as claimed in claim 19 wherein the said shaft seal, labyrinth type outer diameter has resilient o-ring retention-sealing means in the said bearing -seal housing.

Claim 27. (canceled).

Claim 28. (currently amended) A gas turbine engine for generating electricity as claimed in claim 19, wherein the said #1 rotor spool having a rotor shaft and compressor rotor, incorporates an air supply channel thru the said compressor rotor to deliver compressor discharge air as a buffer air means to the said bearing-seal housing retained rotor shaft labyrinth seal.

Claim 29. (Canceled)

Claim 30. (Canceled)

Claim 31. (Canceled)

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Claim 32. (Canceled)

Claim 33. (currently amended) A gas turbine engine for generating electricity, comprising: an engine body; a #2 rotor spool in said engine body, having an alternator rotor with retained permanent magnets, a bladed compressor rotor and a bladed turbine rotor; an electrical stator having electrical wire and laminats with magnetically attracted material, wherein said stator is coaxially about and in close proximity to the said alternator rotor and relative rotation to the said stator inner diameter causes flux change and subsequent electricity generation within the said electrical wire; a combustion system within the said engine body, receives compressor discharge air from said compressor bladed rotor for combusting supplied fuel and delivery of combusted gas energy to the said power rotor spool turbine rotor; a #1 rotor spool within said body having a compressor rotor with blades, a shaft and turbine rotor with blades; a ducting means to deliver the said #1 rotor spool compressor rotor pressurized exit air flow to the inlet of the said #2 rotor spool compressor rotor air inlet; a series of supplemental air tangent start nozzles within said engine body, in close proximity of the outboard end of the said power spool compressor rotor to impinge starting fluid on the exiting blade surface areas; a means to duct supplemental air to the said start nozzles for power rotor spool rotation start means; an internal combustion system within said engine body having fluid communication with said supplemental start [fluid] air exiting flow from the said #2 rotor spool compressor rotor; said start air is used for early combustion prior to developed compressor flow.

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Claim 34. (Canceled)

Claim 35. (currently amended). A gas turbine engine for generating electricity, comprising; an engine body; a #2 rotor spool within said engine body, having an alternator rotor with retained permanent magnets, a bladed compressor rotor having an air inlet and exit and a bladed turbine rotor having a gas inlet and exit; an electrical stator within said engine body, having electrical wire, laminats of magnetically attracted material, and said stator is coaxially about and in close proximity of the said alternator rotor where relative rotation to the said stator inner diameter causes flux change and subsequent electricity generation within the said wires; a combustion system within the said engine body, receives compressor discharge air from the said #2 rotor spool, bladed compressor rotor exit for combusting supplied fuel and delivering of combusted gas energy to the said power rotor spool turbine rotor; a #1 rotor spool within said engine body, having a bladed compressor rotor with an air inlet and exit, a compressor rotor shaft and a bladed turbine rotor with a gas inlet and exit; an air intake in said engine body having fluid communication to said #1 rotor spool compressor inlet; a turbine gas discharge duct within said engine body having fluid communication with said #1 rotor spool, turbine rotor exit; a ducting means to deliver the said #1 rotor spool compressor rotor exit pressurized air flow to the inlet of the said #2 rotor spool compressor rotor inlet; a ducting means to deliver said #2 spool turbine rotor exiting gas energy to the said #1 rotor spool turbine rotor inlet; a #1 rotor spindle sleeve assembly, having outer oil seals, at least one rotor thrust bearing and rotor shaft labyrinth seal

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retained and within said engine body; a #1 rotor spool having a compressor rotor shaft, compressor rotor with blades and turbine rotor with blades is insertable into the said rotor spindle sleeve assembly; a rotor thrust bearing, inner diameter retained to the said #1 rotor spool compressor shaft; a rotor retainer means, wherein one end is axially thread adjustable retained to the said engine body and the other end coacts axially restrictive between the said compressor shaft retained thrust bearing outer race and one inboard end of the said rotor spindle sleeve assembly; a #1 spool module consisting of the said rotor spindle sleeve, said #1 rotor spool and said rotor retainer device; and furthermore the said #1 spool module is axially insertable into the engine body.

Claim 36. (currently amended) A gas turbine engine for generating electricity as claimed in claim (34) 35, wherein the said #1 spool module having at least one said rotor bearing outside diameter within the said rotor spindle sleeve assembly, incorporates oil squeeze film dampening between at least one rotor bearing outer race and said rotor spindle adjacent inner diameter; said rotor spindle sleeve assembly outer diameter co-acts with the engine body inner receiving diameter and incorporates an oil squeeze film damper.

Claim 37. (canceled).